

MECHANISM FOR HANDLING RACE CONDITIONS IN FRC-ENABLED PROCESSORS

Abstract of the Disclosure

An processor includes first and second execution cores that operate in an FRC mode, an FRC check unit to compare results from the first and second execution cores, and an error check unit to detect recoverable errors in the first and second cores. The FRC check unit temporarily stores results from the first or second core, and a timer is activated if a mismatch is detected. If the error detector detects a recoverable error before the timer interval expires, a recovery routine is activated. If the timer interval expires first, a reset routine is activated.

TOP SECRET